

IN THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Previously Presented) An information processing apparatus for recording an AV stream on a recording medium adapted for recording said AV stream, Clip information operable to manage the AV stream, and PlayList information operable to manage the reproduction of the AV stream, said information processing apparatus comprising:

means for generating time information of a characteristic picture in said AV stream, start address information associated with the Clip information, and map information correlating time information in said AV stream and data address information in said AV stream, wherein the data address in the AV stream is found by referencing the time information in said AV stream; and

means for recording the start address information generated by said generating means within a Clip information file on said recording medium.

2. (Previously Presented) The information processing apparatus according to claim 1, wherein the start address information is a start address of a STC sequence or a program sequence; and wherein:

the map information correlating the time information and the address information is an EP_map or a TU_map; and

the time information of the characteristic picture is ClipMark.

3. (Previously Presented) The information processing apparatus according to claim 1, wherein the recording means further records information pertinent to an average value of the recording rate of said AV stream on said recording medium.

4. (Original) The information processing apparatus according to claim 3 wherein the information pertinent to an average value is TS_average_rate.

5. (Original) The information processing apparatus according to claim 1 wherein the AV stream is a transport stream.

6. (Previously Presented) The information processing apparatus according to claim 1, wherein the start address information includes a start address of an STC sequence which is a domain where system time clocks of said transport stream are continuous.

7. (Previously Presented) The information processing apparatus according to claim 5, wherein the start address information includes a start address of a program sequence which is a domain where program contents of said transport stream are constant.

8. (Previously Presented) The information processing apparatus according to claim 1, wherein the start address information includes a start address of a domain where the arrival time based on the arrival time of a transport packet of said transport stream is continuous.

9. (Previously Presented) The information processing apparatus according to claim 5, wherein the map information correlating the time information and the address information includes an address of an I-picture of said transport stream and a presentation time stamp corresponding to said transport stream.

10. (Previously Presented) The information processing apparatus according to claim 9 further comprising:

compression means for compressing at least part of the map information correlating the time information and the address information in said AV stream[:;], said recording means recording said information compressed by said compression means.

11. (Original) The information processing apparatus according to claim 1 wherein the information correlating the time information and the address information in said AV stream includes an arrival time based on the arrival time of a transport packet and an address in said AV stream data of a transport packet associated therewith.

12. (Previously Presented) An information processing method for recording an AV stream on a recording medium, adapted for recording said AV stream, Clip information for operable to manage the AV stream, and PlayList information operable to manage the reproduction of the AV stream, said method comprising:

a step of generating time information of a characteristic picture in said AV stream, start address information associated with the Clip information, and map information correlating time information in said AV stream and address information in said AV stream,

wherein the data address in the AV stream is found by referencing the time information in said AV stream; and

a step of recording the start address information generated by said generating step within a Clip information file on said recording medium.

13. (Currently Amended) A computer-readable recording medium for storing a computer program for recording an AV stream on a recording medium, the recording medium carrying said AV stream, Clip information operable to manage the AV stream, and PlayList information operable to manage the reproduction of the AV stream, wherein said computer program comprises executes a method comprising:

a step of generating time information of a characteristic picture in said AV stream, start address information associated with the clip information, and map information correlating time information in said AV stream and data address information in said AV stream, wherein the data address in the AV stream is found by referencing the time information in said AV stream; and

a step of recording the start address information generated by said generating step within a Clip information file on said recording medium.

14. Canceled.

15. (Previously Presented) An information processing apparatus for reproducing an AV stream from a recording medium having recorded thereon said AV stream, Clip information

operable to manage the AV stream, and PlayList information operable to manage the reproduction of the AV stream, said information processing apparatus comprising:

means for reproducing time information of a characteristic picture in said AV stream, start address information as said Clip information, and map information correlating time information in said AV stream and data address information in said AV stream, wherein the data address in the AV stream is found by referencing the time information in said AV stream; and

means for controlling the outputting of said AV stream based on said Clip information reproduced by said reproducing means.

16. (Previously Presented) An information processing method for reproducing an AV stream from a recording medium, having recorded thereon said AV stream, Clip information operable to manage the AV stream, and PlayList information operable to manage the reproduction of the AV stream, said method comprising:

a step of reproducing the time information of a characteristic picture in said AV stream, the start address information associated with the Clip information, map information correlating time information in said AV stream and data address information in said AV stream, wherein the data address in the AV stream is found by referencing the time information in said AV stream; and

a step of controlling the outputting of said AV stream based on said Clip information reproduced by said reproducing means,

said recording medium having recorded thereon said AV stream, said Clip information for managing the entity of the AV stream, and said PlayList information for managing the reproduction of the AV stream, wherein a Clip information file associated with the

Clip information and a PlayList information file associated with the PlayList information are recorded separately in order to provide a reduction in recording time when the contents of the Clip information file and the PlayList information file are changed.

17. (Currently Amended) A computer-readable recording medium for storing a computer program for reproducing an AV stream from the recording medium, on which said AV stream, Clip information operable to manage the AV stream, and PlayList information operable to manage the reproduction of the AV stream are recorded[[:]], wherein said computer program comprises executes a method comprising:

a step of reproducing time information of a characteristic picture in said AV stream, start address information associated with the Clip information, and map information correlating time information in said AV stream and data address information in said AV stream, wherein the data address in the AV stream is found by referencing the time information in said AV stream; and

a step of controlling the outputting of said AV stream based on said Clip information reproduced by said reproducing means.

18. (Currently Amended) A computer-readable recording medium for storing a computer program for reproducing an AV stream from a recording medium, wherein said computer program ~~comprises~~ executes a method comprising:

a step of reproducing time information of a characteristic picture in said AV stream, start address information associated with the Clip information, and map information correlating time information in said AV stream and address information in said AV stream,

wherein the data address in the AV stream is found by referencing the time information in said AV stream; and

a step of controlling the outputting of said AV stream based on the Clip information reproduced by said reproducing means;

said recording medium having recorded thereon said AV stream, said Clip information for managing the AV stream, and PlayList information for managing the reproduction of the AV stream, wherein a Clip information file associated with the Clip information and a PlayList information file associated with the PlayList information are recorded separately in order to provide a reduction in recording time when the contents of the Clip information file and the PlayList information file are changed.

19. (Currently Amended) A computer-readable recording medium for storing a computer program, wherein the computer program ~~comprises~~ executes a method comprising the steps of:

reproducing an AV stream from a recording medium on which said AV stream, Clip information for managing the AV stream, and PlayList information for managing the reproduction of the AV stream are recorded[[:]], wherein

time information of a characteristic picture in said AV stream, start address information, and map information correlating time information in said AV stream and data address information in said AV stream are recorded on the recording medium as said Clip information, wherein the data address in the AV stream is found by referencing the time information in said AV stream; and

recording on said medium the AV stream, the Clip information for managing the AV stream, and the PlayList information for managing the reproduction of the AV stream, wherein a Clip information file associated with the Clip information and a PlayList information file associated with the PlayList information are recorded separately in order to provide a reduction in recording time when the contents of the Clip information file and the PlayList information file are changed.

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